

Attorney Reference Number 3382-66130-01 Application Number 10/687,098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Sloan et al.

Application No. 10/687,098

Filed: October 15, 2003 Confirmation No. 7230

For: BI-SCALE RADIANCE TRANSFER

Examiner: Kevin K, Xu

Art Unit: 2673

Attorney Reference No. 3382-66|130-01

COMMISSIONER FOR PATENTS

P.O. BOX 1450

ALEXANDRIA, VA 22313-1450

DECLARATION UNDER 37 C.F.R. §1.131

We, Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu, and Heung-Yeung Shum hereby declare as follows:

- 1. We are named as co-inventors on the above-referenced application, filed October 15, 2003. Microsoft Corporation is the assignee of the above-referenced application.
- 2. It is our understanding that pending claims 1-11 of the above-referenced application have been rejected by the U.S. Patent and Trademark Office for allegedly being obvious over a combination of references, including Christensen et al., "Ray Differentials and Multiresolution Geometry Caching for Distribution Ray Tracing in Complex Scenes," Eurographics 2003 (September 2003).
- 3. Prior to the September, 2003 publication date of Christensen *et al.*, we had conceived and reduced to practice the invention described and claimed in the subject application in this country, as evidenced by the following:

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SAW-lem 07/25/06 131 declaration.doc 305383 01 PATENT Attorney Reference Number 3382-66130-01 Application Number 10/687,098

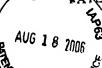
- 4. On July 28, 2003, we (Peter-Pike J. Sloan, John M. Snyder, Xinguo Liu) presented a paper entitled "Bi-Scale Radiance Transfer" (attached as Exhibit A), co-authored by all co-inventors of the above-reference patent application, at the SIGGRAPH 2003 conference in San Diego. (A listing of the conference is papers program on the SIGGRAPH web site showing our presentation is attached as Exhibit B.) This paper describes our Bi-Scale Radiance Transfer work upon which the above-referenced patent application was based. The Bi-Scale Radiance Transfer techniques described therein were reduced to practice prior to authoring this paper, as evidenced by the color images (Figures 1(c), 3, and 6) in the paper that were produced using the Bi-Scale Radiance Transfer techniques.
- 5. All statements made herein and of our own knowledge are true and all statements made on information are believed to be true; and further, these statements were made with the knowledge that willful false statements and like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statements made may jeopardize the validity of the application or any patent issuing thereon.

Date	Peter-Pike J. Sloan
Date	John M. Snyder
July 25, 2006 Date	Xinguo Liu Xinguo Liu
Date	Heung-Yeung Shum

Page 2 of 2

07/24/06 131 declaration.doc 305383.01

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7/24/06 Date	Peter-Pike J. Sloan	
Date	John M. Snyder	
Date	Xinguo Liu	
Date	Heung-Yeung Shum	

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Date	Peter-Pike J. Sloan
6/21/2006 Date	John M. Angellander
Date	Xinguo Liu
Date	Heung-Yeung Shum



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Fax to: 503 228 9446
From: Hony Shum
To: Suephen Wight
The signed page only.

131 declaration 305383.01

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Date	Peter-Pike J. Sloan
Date	John M. Snyder
Date	Xinguo Liu
8/14/2006	hyhm
Date	Heung-Yeung Shum